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#### ABSTRACT

CITY III is a computer-assisted simulation game in which participants make decisions affecting the economic, governmental, and social conditions of a simulated urban area. In one of its five city options (called Lothian) the CITY III simulation model focuses on a micro-view of an urban area by reducing the level of aggregation. The population is reduced ten times so that each population unit equals 50 persons (instead of 500) and each unit of linear measure equals one-third of a mile (instead of a mile). The numerical parameters for each decision-making sector in this small scale version are presented in the form of a set of "Master Sheets" and input explanation charts. The "Master Sheets" and charts for the other four versions are contained in the Players Manual. (JY)



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CITY III -- SMALL SCALE

MASTER SHEETS

### MASTER SHEET FOR BASIC INDUSTRY

Land Development Typical Construc-	HII	<u>LII</u>	NS1
tion Cost Land Requirement	\$10,500,000 28%	\$6,500,000 24%	\$5,000,000 <b>20</b> %
Depreciation and Maintenance Rates			
Annual Normal (%)  As a Result of	3.1	<b>2.6</b>	3.0
MS Quality (%)	3.10	2.60	3.00
[Note: $Q = MS U$	se Index - 100 100	1	·
Income			
Maximum Output		•	
( <b>d</b> esign capa- <b>c</b> ity)	1000 units	1000 units	1000 units
Average Price per			
Unit (set by			411 000
"Outside System"	\$19,000.	\$11,500	\$11,000
Average Maximum Gross Income \$1	9,000,000 \$	11,500,000 \$	11,000,000
Expenditures	•	٠.	•
Employment		•	•
Requirements			
PH - 12 workers	21(0)	15(0)	. 23(1)
PM - 16 workers	29 (1)	11(1)	9 (0)
PL - 20 workers	9(0)	11(1)	9 (0)
[Note: Numbers employment units		indicate par	t-time
Typical Wage Bill		•	
(if at full em-	•		
ployment and		•	
typical salaries			•
of \$10,000, \$5,000		•	•
and 2,500 are	PE 1970 000 mi	¢2 260 000	· ¢4~050 000
offered) \$	5,370,000	\$3,300,000	\$2,050,000
BG and BS Require-		• ;	
ments For 1% Maintenance			•
and/or Renova-			. `
tion	• •		
BG:	9 units	4 units	1 unit
BS:	1.5 units	2.5 units	4 units

Master Sheet for Basic Industry - (Cont'd)

for Normal	Opera-	HII	<u>LII</u>	NS1
tions	•	•	<b>5</b> ~	•
· BG		420 units	190 units	60 units
BS		60 units	100 units	230 units

[Note: BG and BS can be purchased either from local BG and BS establishments at competitive prices or from the outside system at a fixed price of \$13,000 per unit.]

Utility Requirements

402 units

135 units

76 units

[Note: The price for utility service is set by the Utility Department. The "typical" price is \$1,000 per unit.]

Transportation

Charges per distance unit

Along
HY3 to:

BG	\$16/CU	\$16/CU	\$16/CÜ
BS	\$16/CU	-\$16/CU	\$16/CÜ
Terminal	\$28,000	\$8,500	

[Note: An HY3 is the least expensive road. Charges are double on an HY2 and triple on an HY1.]

Taxes

Local

Property Sales

Local tax rates are set by the Chairman

Federal and State
Business Income
(State)

5% of (gross income minus salaries, minus goods and services payments, minus maintenance payments, minus state sales tax and local sales tax, and minus property tax).

Business Income (Federal)

22% of first \$25,000 of (gross income minus salaries, minus goods and services payments, minus maintenance payments, minus state sales tax, minus local sales tax, minus property tax, minus state income tax) Plus 48% of rest (minus the same deductions).

Sales Tax (State)

3% of the total purchases of BG and BS.

### MASTER SHEET FOR THE CONSTRUCTION INDUSTRY

Land Development  Development Cost (equipment units)	CI1 \$12,000,000
Land Requirement	20%
Depreciation (equipment)  As a Function of Use	.04C*
Capacity (equipment units)	1000
Expenditures Employment Requirements	l population unit of each class per 50 units of labor
Typical Wage Bill (if typical salaries of \$10,000,\$5,000 and\$2,500 are offered)	\$250,000 per 50 units of labor
Per unit of Equipment BG BS	.44 units .06 units

[Note: BG and BS may be purchased either from local BG and BS establishments at competitive prices or from the "Outside System" at "fixed cost" of \$13,000 per unit.]

Transportation Charges per
distance unit along HY3 per
CU of construction
to BG:
to BS
1
to Build Site

[Note: A HY3 is the least expensive road to travel. Costs are double on a HY2 and triple on a HY1.]

\*C = equipment units used design capacity

Master Sheet for the Construction Industry -- Cont'd

#### Taxes

Property
Sales
Federal and State
Business Income
(State)

Local Tax Rates are set by the Chairman

15% of (gross income minus salaries, minus goods and services payments, minus maintenance payments, minus state sales tax and local sales tax, and minus property tax).

Business Income (Federal)

22% offirst \$25,000 of (gross income minus salaries, minus goods and services payments, minus maintenance payments, minus local sales tax, minus state sales tax, minus property tax, minus state income tax)

plus 48% of rest (minus the same deductions).

Sales Tax (state)

3% of the total purchases of BG and BS.

#### MASTER SHEET FOR THE CONSTRUCTION INDUSTRY

### Construction Capacity Requirements

		<b>`</b>			•
•	Construction		Units	Demo1:	ition
	Units of	Units of	of	Units of	Units of
Land Use	Equipment	Material	Labor	Equipment	<u>Material</u>
Basic Indus	try		^		•
HIl	<b>5</b> 25	525	<b>52</b> 5	105	359
LIl	325	325	<b>32</b> 5	65	222
nsl	250	250	250	50	171
Local Servi	ce .				•
Industry	.•				
BG1	125	125	125	<b>25</b>	.86
BSl	50	. 50	· 50	· 10	34
PG1	150	150	150	30	103
PS1	50	50	50	10	· 34
Residences*					
RAI	. <b>5</b>	. 5	5	1	<b>3</b> .
RBl	30	30	30	6	21
RC1	125	. 125	125	25	86
Public Stru	ctures	٠.			
SCl	135	135	<b>135</b>	27	92
MSl	150	150	150	30	103
HYl	4	4	4	1	3
TMl	70	70	<b>7</b> 0	14	42
	-				

<sup>\*</sup>These requirements of equipment, materials, and labor are for residence construction at QI = 100. But new housing can be built at a lower quality index (as low as QI = 40). Requirements diminish according to the equation: R = 1/200 S(100 + X) where S is the units of equipment and material or the units of labor required to build a residence at QI = 100 and R is the units required to build the same type of residence at QI = X. Using an RCl as an example, the requirements at QI = 80 are 113, at QI = 60 are 100, and at QI = 40 are 80.

# MASTER SHEET FOR COMMERCIAL ESTABLISHMENTS

Land Development Typical Con-	BG1	BS1	PG1	PS1
struction Cost Land Require-	\$2,500,000	\$1,000,000	\$3,000,000	\$1,000,000
ments	24%	20%	16%	12%
Depreciation and Maintenance Depreciation Rates	·. ·			
Annual Normal ( As Result of MS		2.0	1.6	<b>2.2</b> .
Quality (%) As Result of Us	2.5Q* se .015C	3.00 ** .02C	2.6Q .016	3.20 .022C
. [Note: $*Q = MS$	Use Index	- 100	•n - \	
**C = (A	ctual Use of	Commercial	L Establishm	ent)
Income	eccive capac	erty of Comm	mercial Estal	olishment) -
Design Capacity			,	•
(units)	5,000	1,500	16,000	8,000
Typical Price	•		• • • • •	
per unit Typical Maximum	~\$10,000	\$10,000	\$1,000	\$1,000
Income	50,000,000 \$	15,000,000	\$16,000,000	\$8,000,000
Expenditures Employment	· .			
Requirements PH - 12 worker	s: 14(1)	20 (1)	8(0)	6(0)
PM - 16 worker		9(0)	13(1)	11(1)
PL - 20 worker	* *	9 (0)	22(2)	16(2)
[Note: Numbers employment unit		ses indicat	ce part-time	
Typical Wage Bill (If at full- employment and			•	
typical salaries		,		•
of \$10,000;		•		•
\$5,000 and		• • • • • • • • • • • • • • • • • • • •		•
\$2,500 are	40 760 000		<b>A. A. A. A. A. A. A. A.</b>	* * * * * * * * * * * * * * * * * * * *

\$2,760,000 \$3,690,000 \$3,280,000 \$2,580,000

Master Sheet for Co	ommercial Estab	olishments - (	Cont'd)	
BG and BS Require- ments per unit of output For Normal Operation	BG1	BS1	PG1	PS1
Outside	\$8,300 (fixed cost)	\$5,800 (fixed cost)	, New Yorky allow allows	
BG	(TIVEC CO2C)	(IIAEU COSC)	.037 units	.03 units
BS	Gill Plan god yaar diin		.017 units	.01 units
For 1% Renova- tion & Main-	•			•
tenance		*		
Outside	\$25,000	\$10,000	•	
BG BS	(fixed cost)	(fixed cost)	2 units 1 unit	.75 units
Note: BG and BG and BG and BS establishments which can prices or from \$13,000 per uni	olishments (exc mot purchase f the "Outside S	cept for BG an from themselve	d BS establ s) at compe	tive
Utility Requirement	ts 112 units	71 units	99 units	77 units
[Note: The pri Utility Departr per unit.]	<del></del>			
Transportation Char Per unit of outpu Per distance unit from Terminal to BG	ıt.	·	.57	.50
to BS	• .• .		.57	
Note: An HY3		_	. Costs ar	<b>:e</b> 
Taxes Local			. `	•

Property

Local tax rates are set by the Chairman

Master Sheet for Commercial Establishments - (Cont'd)

Federal and State
Business Income
(State)

5% of (gross income minus salaries minus goods and services payments, minus maintenance payments, minus state sales tax and local sales tax, and minus property tax).

Business Income (Federal)

22% of first \$25,000 of (gross income minus salaries, minus goods and services payments, minus maintenance payments, minus state sales tax, minus local sales tax, minus property tax, minus state income tax)

plus 48% of rest (minus the same deductions).

Sales Tax (State)

3% of the total purchases of BG and BS.

### MASTER SHEET FOR RESIDENCES

·			•
Land Development	RA1	RB1	RC1
Typical Construction Cost (at VR = 100)	\$100,000	\$600,000	\$2,500,000
Land Requirement	12%	12%	12%
Depreciation and Maintenance Depreciation Rates Annual Normal (%)	2	3 10	4
Result of MS Qualit	y (%) 1Q	10	<b>1Q</b>
[Note: Q = MS Use	Index - 100 ]	:	
Design Capacity	•	• . •	·
PH	1	6	25
PM PL	1.5	9 12	37.5 50
Rent	•	•	
Typical Rents/PLl			
PH tenants	\$16,500	\$16,500	\$16,500
PM tenants	15,000	15,000	15,000
PL tenants	14,000	14,000	14,000
The second secon		•	
Comment of the Commen	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • •
			•
Income-Typical Rent at Design Capacity			
PH	33,000	198,000	825,000
PM PM	30,000	180,000	750,000
<b>PL</b>	28,000	168,000	700,000
Expenditures		•	. • •
PG and PS requirement	S		
For 1% Renovation o			•
PG	.7 units	4 units	17 units
<b>PS</b>	.3 units	2 units	8 units
[Note: PG and PS mand PS establishmen fixed price of \$1,3			
· · · · · · · · · · · · · · · · · · ·			

Utility Requirements 4 units

26 units

117 units

[Note: Prices for utility service are set by the Utility Department. The "typical" price for a unit of service is \$1,000.]

Master Sheets for Residences - (Cont'd)

Taxes

Local

Property Sales

Local tax rates are set by the Chairman

Federal and State
Business Income
(State)

5% of (gross income minus salaries, minus goods and services payments, minus maintenance payments, minus state sales tax and local sales tax, and minus property tax).

Business Income (Federal)

22% of first \$25,000 of (gross income minus salaries, minus goods and services payments, minus maintenance payments, minus state sales tax, minus local sales tax, minus property tax, minus state income tax). plus 48% of rest (minus the same deductions) 3% of the total purchases of PG and PS.

Sales Tax (State)

3% of the total purchases of PG and PS.

# MASTER SHEET FOR SOCIAL SECTOR

	I	PH	PM_	PL.
	• `		~	-
Population Charactes		High	Middle	Low
Number of People Number of Workers		50 L2	50	50.
Number of Students		13	16 14	20 10
Normal Number of			7.4	
Registered Vote:	rs 2	20	14	10
Educational Range		70-99	40-69	0-39
Economic Characteris	stics	· .		•
Typical Salary pe:	r Worker \$	\$10,000	\$5,000	\$2,500
Typical Salary per		6 to 100	****	· · · · · · · · · · · · · · · · · · ·
Population Unit	_	20,000	\$80,000	\$50,000
PG and PS requirer		) A sain of them	20	21
PG PS	,	34 units L6 units	28 units 11 units	21 units 7 units
		io direcs	TT WILL CO	/ and co
[Note: PG and ]	PS may be b	ought from	local PG and	d PS
establishments a				
per unit) or fro		_	n" at a fixed	đ
price of \$1,300	per unit.	1		
Typical Rents	\$3	3,000 \$2	20,000 \$1	14,000
[Note: Rents as	re set by e	conomic dec	cision-makers	5 <b>.</b>
Actual rents may	y range abo	ve or below	v these figur	res.]
		•	•	
Transportation Cha	_			
Travel to Work	ολ		•	
Auto Base Cost	° ¢21	1 /worker \$1	190/worker \$1	140/worker
+	423	O WOLKEL Q.	ryo/worker 4.	
Distance Unit	Cost on			
HY1	\$20/worke	r/DU \$18/	/worker/DU	\$16 /worker/ DU
HY2	\$16/worke		/worker/DU	\$13/worker/DU
нүз	\$13/worke	er/DU \$12/	/worker/DU	\$10 /worker/ DU
Travel to Work				;
by Bus	Rates set	by Bus Con	npany	
		<del>-</del>		
A A A A A A A A A A A A A A A A A A A		•		

Travel to PG
by Auto
Cost per Distance Unit
on HY3: \$2 per Unit \$2 per Unit
Consumed Consumed Consumed

		•	
	. <u>PH</u>	PM	PL
Maria 1 to DO			
Travel to PS	. •		
by Auto			
Cost per Distance Unit	\$2 per Un:	it \$2 per	Unit \$2 per Un
on HY3	Consumed	Consun	ned Consumed
	•		
•	•	•.:	•
Cost of Private Education	on \$3,750	\$2,50	0 \$1,250
axes			• "
Local	Tocal ta	x rates set	by Chairman
Sales	TOOKT CC	. Laces see	. Dy Citallian
Income	•	•	
			•
Federal-State	*1 tem *		ويعاد كالمستعدد سادا السار
Sales	20 25 1-		o of pa/pa
Income		otal purchas	
2110 Onic	126 (Wage	es) 68 (wag	ges) 3% (wages)
ocial Characteristics	•		•
Units of Time to Allocat	e 100 time	100 time	100 time
Orraco on value co varaocac	700 571116		
•	unite	=	
Time Consumntion	units	units	units
Time Consumption Travel to Work per Di		=	
Travel to Work per Di		=	
Travel to Work per Di on Uncongested	stance Unit	units	units
Travel to Work per Di	stance Unit 1 time	units 1 time	units 1 time
Travel to Work per Di on Uncongested HY1	stance Unit 1 time units	units  1 time units	units  1 time units
Travel to Work per Di on Uncongested HY1	stance Unit  1 time units .67 time	units  1 time units .67 time	units  1 time units .67 time
Travel to Work per Di on Uncongested HY1 HY2	1 time units .67 time units	units  1 time units .67 time units	units  1 time units .67 time units
Travel to Work per Di on Uncongested HY1	1 time units .67 time units .33 time	1 time units .67 time units .33 time	1 time units .67 time units .33 time
Travel to Work per Di on Uncongested HY1 HY2	1 time units .67 time units .33 time unit	units  1 time units .67 time units	1 time units .67 time units
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un	1 time units .67 time units .33 time unit	1 time units .67 time units .33 time unit	1 time units .67 time units .33 time unit
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1	1 time units .67 time units .33 time unit it on 1.3 time	1 time units .67 time units .33 time unit	1 time units .67 time units .33 time unit
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1	1 time units .67 time units .33 time unit ait on 1.3 time units	1 time units .67 time units .33 time unit	1 time units .67 time units .33 time unit
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1	1 time units .67 time units .33 time unit it on 1.3 time units 1 time	1 time units .67 time units .33 time unit 1.3 time units 1 time	1 time units .67 time units .33 time unit 1.3 time units 1 time
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units	1 time units .67 time units .33 time unit 1.3 time units l time units	1 time units .67 time units .33 time unit 1.3 time units 1 time units
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units .67 time	1 time units .67 time units .33 time unit 1.3 time units 1 time	1 time units .67 time units .33 time unit 1.3 time units 1 time
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units .67 time units	1 time units .67 time units .33 time unit 1.3 time units 1 time units
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units .67 time	1 time units .67 time units .33 time unit 1.3 time units 1 time units .67 time	1 time units .67 time units .33 time unit  1.3 time units 1 time units .67 time
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2  HY3	1 time units .67 time units .33 time unit it on 1.3 time units 1 time units .67 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2  HY3  Waiting	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units .67 time units .1 time	1 time units .67 time units .33 time unit  1.3 time units 1 time units .67 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units 1 time
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2  HY3	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units .67 time units .1 time	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units 1 time
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2  HY3  Waiting	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units .67 time units .1 time	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units 1 time
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2  HY3  Waiting	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units .67 time units .1 time	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units 1 time
Travel to Work per Di on Uncongested HY1  HY2  HY3  By Bus Per Distance Un HY1  HY2  HY3  Waiting	1 time units .67 time units .33 time unit ait on 1.3 time units 1 time units .67 time units .1 time	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units	1 time units .67 time units .33 time unit  1.3 time units 1 time units 1 time units .67 time units 1 time

[Note: Highway congestion (for auto or bus) increases time consumption in direct proportion to the amount of congestion that occurs.]

# Master Sheet for the Social Sector (cont'd)

•	PH	<u>PM</u>	PL
Extra Work Units of Time for			; ·
Full-Time Job Typical Salary	80	. 80	80
per time unit	\$1,500	\$1,000	\$625
Adult Education Annual Time Units			,
required to maintain maximum education	· ·	•••	•
level Cost per Time Unit	27	20	26
for private adult education	\$300	\$300	\$300
Politics			
Units of Time for 7% increase in voters Units of time for 10%	10	10	10
increase in voters Units of time for 15%	50	50	50
increase in voters	60	60	60
Recreation Units of PG	•	٠, ٠	
per unit of time Units of PS	.1	.05	.025
per unit of time	.075	.05	0 .

## MASTER SHEET FOR THE SCHOOL DEPARTMENT

# General Characteristics

Land Development Typical Construct:	i on	•		<u>scl</u>	
Cost	1011	:	\$2.7	00,000	•• •
Land Requirement		•		16%	
Depreciation and	· · · · ·				
Maintenance					
Annual Depreciation	on			·.	
Rate	• • •			2%	
BG and BS Requireme	nts				
For 1% Renovation					
Maintenance			•	2 2	٠.
BG BS			_	units units	•
For Normal Operat	ion		•	uii co	
BG				units	
BS	•		· <b>3</b>	units	
Federal-State Aid		**			
Capital			\$1 fo	or every	
			100	al \$1	_
. On month / suit omatio	<b>:</b> }	•	\$225	per stud	lent
Current (automatic	•		·	•	
· · · · · · · · · · · · · · · · · · ·		nts) as a			
Design Capaci		nts) as a			
Design Capaci	ty (stude	nt Mix		of	
Design Capaci PM Teacher 0 1	ty (stude	nts) as a nt Mix			6
Design Capaci	ty (stude	nt Mix		of	
Design Capaci  PM Teacher 0 1  Units  PH Teacher	ty (stude	nt Mix		of	
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units	ty (student Employment 2	at Mix 3	Function 4	of 5	6
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units  0 2	ty (student Employment 2	3 684	Function 4  990	of 5	6
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units  0 2 1 360 5	ty (student Employment 2	3 4 684 6 1,120	990 1,332	of 5 1,224 1,530	1,314 1,710
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units 0 2 1 360 5 2 720 9	ty (student Employment 2  52 41 91 84 90 1,26	3 4 684 6 1,120 0 1,550	990 1,332 1,746	of 5 1,224 1,530	6
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units  0 2  1 360 5  2 720 9  3 1,080 1,4  1,314 1,7	ty (student Employment 2	3 4 684 6 1,120 0 1,550 2 2,000 6 2,340	990 1,332 1,746 2,196 2,520	of 5 1,224 1,530 1,944 2,376 2,700	1,314 1,710 2,124 2,556 2,862
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units  0 2 1 360 5 2 720 9 3 1,080 1,4 4 1,314 1,7 5 1,710 2,0	Employme 2 52 41 91 84 90 1,26 04 1,69 46 2,10 70 2,34	3  4 684 6 1,120 0 1,550 2 2,000 6 2,340 0 2,664	990 1,332 1,746 2,196 2,520 2,844	of 5 1,224 1,530 1,944 2,376 2,700 3,000	1,314 1,710 2,124 2,556 2,862 3,150
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units  0 2 1 360 5 2 720 9 3 1,080 1,4 4 1,314 1,7 5 1,710 2,0	Employment 2  52 41 91 84 90 1,26 04 1,69 46 2,10	3  4 684 6 1,120 0 1,550 2 2,000 6 2,340 0 2,664	990 1,332 1,746 2,196 2,520 2,844	of 5 1,224 1,530 1,944 2,376 2,700	1,314 1,710 2,124 2,556 2,862
Design Capaci  PM Teacher 0 1  Units  PH Teacher  Units  0 2 1 360 5 2 720 9 3 1,080 1,4 4 1,314 1,7 5 1,710 2,0	Employment 2  52 41 91 84 90 1,26 04 1,69 46 2,10 70 2,34 85 2,68	3  4 684 6 1,120 0 1,550 2 2,000 6 2,340 0 2,664 2 2,988	990 1,332 1,746 2,196 2,520 2,844 3,132	of 5 1,224 1,530 1,944 2,376 2,700 3,000	1,314 1,710 2,124 2,556 2,862 3,150
Design Capaci  PM Teacher 0 1 Units  PH Teacher Units 0 2 1 360 5 2 720 9 3 1,080 1,4 4 1,314 1,7 5 1,710 2,0 6 1,980 2,3	Employment 2  52 41 91 84 90 1,26 04 1,69 46 2,10 70 2,34 85 2,68	3 4 684 6 1,120 0 1,550 2 2,000 6 2,340 0 2,664 2 2,988 ity of an	990 1,332 1,746 2,196 2,520 2,844 3,132 SC1	of 1,224 1,530 1,944 2,376 2,700 3,000 3,285	1,314 1,710 2,124 2,556 2,862 3,150 3,420

in a PM.]

### Master Sheet for the School Department -- Cont'd)

## Population Unit Characteristics

Characteristics	PH	PM	PL	
Number of students Criteria for Refusal	13	14	10	
attend Public Schools Value Ratio (Min.) Student-Teacher Ratio (Maximum)	80 18:1	60 22:1	·	
Ratio of High to Middle Teachers (Minimum)	1:1	3:4		
Cost of Private Educa-	\$3,750	\$2,500	\$1,250	,

### Capital Federal-State Aid

1st Request: 60% chance of acceptance when students/school = 1,800

2nd Request: 40% chance of acceptance when students/school = 1,800

3rd Request: 30% chance of acceptance when students/school

#### MASTER SHEET FOR MINICIPAL SERVICES DEPARTMENT

# General Characteristics

Land Development	MS I
Typical Construction Cost	\$3,000,000
Land Requirement	12%
Depreciation and Maintenance	, , , , , , , , , , , , , , , , , , ,
Annual Depreciation Rate	3.3%
BG and BS Requirements	
For 1% Renovation or	
Maintenance	
BG BG	2 units
BS	l unit
For Normal Operation	
. BG	7 units
BS	3 units
•	

Desi	gn Cap			as a Fun	ction of	£.	
	•	· Emp.	loyment 1	MIX.			
PL Worker Units	. 0	1	2	3 .	4	5	. 6
PM Worker Units	<b>:</b>				/	•	
0		140	230	380	500	680	730
1	200	330	470	620	740	850	950
. 2	400	. 550	700	860	970	1,080	1,180
<b>.3</b>	600	780	9 40	1,100*	1,220	1,320	1,420
4	730	970	1,170	1,300	1,400	1,500	1,590
<sup>′</sup> 5	950	1,150	1,300	1,580	1,580	1,670	1,750
6	1.100	1.325	1,490	1.660	1,740	1,825	1,900

[Note: There are 16 workers in a PM and 20 workers in a PL.]

\*The least cost design capacity of MS1

# Drain on Municipal Services

Land Use	•	 Drain of MS Units
HIL		105
LII NS1		65 50

# Master Sheet for Municipal Services Department -- Cont'd

# Drain on Municipal Services (Cont'd)

Land Use	•	•	Drain	of MS	Units
BG1 BS1 PG1 PS1				25 10 30 10	
RA1 RB1 RC1	·			10 60 250	

# MASTER SHEET FOR THE HIGHWAY DEPARTMENT

# General Characteristics

Land Developme Typical Cons		HY1	TMl
Costs Land Require	ements	\$26,600 8% from 2 sides	\$1,400,000 12% from 4 sides
[Note:	HY3 are 16	% (from both 2 are 16% and	Y2 are 12% and for sides of roadbed) TM3 are 20% (from
Depreciation Maintenance Depreciation Use		5.0Z	None
[Note:		use/effective	e capacity; it s Z > 0]
BG and BS Requirements For 1% Renormalization	vation or		
BG		\$233/distanc	
BS		(fixed \$ 33/distanc (fixed	eunit 🔍
•			
		· ·	· ·
Design Capaci	ty	500 units p	
Road Unit Con	sumption pe	r	
To Work by	Auto	10 units per population u	
To Work by I Level 1 Level 2	•	50 units	
Level 3		150 units	

### Master Sheet for the Highway Department (Cont'd)

HYl TMl Terminal Unit Consumption by: HIl **3000** units LII **1000** units BG1 l unit per CU sold Federal-State Aid (for approved construction projects) HYl \$1 for every HY2 local \$9 \$1 for every EYH

local \$1

### MASTER SHEET FOR PLANNING AND ZONING

### Zoning Classification

Land Use	Classification
Any Use	00 or
Any Business	10
Any Manufacturing	20
HI LI CI	21 22 23
Any Commercial	30
NS BG BS PG PS	31 32 33 34 35
Any Residential	40
RA RB RC	41 42 43
Parkland	50

Federal-State Aid is available for purchase of land with the probability that aid will be granted increasing as the amount of the request decreases and existing ratio of population/square mile of parkland increases

# MASTER SHEET FOR THE UTILITY DEPARTMENT

# General Characteristics

Level Installation Costs paid to Service Outside			Maximum Amount of Utility Units Installed
: .		•	
Level 1	200,000	•	100
Level 2	400,000		200
Level 3	500,000		<b>300</b>
Level 4	600,000		400
Level 5	800,000		<b>50</b> 0
Level 6	1,100,000	ris.	600
Level 7	1,400,000		<b>70</b> 0
Level 8	1,800,000		900
Level 9	2,800,000	-	1,300
			, •

# Variable Cost Function of a UT1

Utility Units Served	Per Unit Operating Costs	Total Operating Costs	
300	\$2,000	\$600,000	
- 600	1,333 ~	800,000	
900	963	866,666	
1200	777	933,333	
*1500	*666	1,000,000	
1800	740	1,333,333	
2100	793	1,666,666	
2200	808	1,777,777	
<b>2500</b> .	844	2,111,111	
2800	873	2,444,444	

\*The least cost design capacity of a UT1.

# Utility Units Consumed

Land Use	Consumption	
Basic Industries		
HIL	402	
LII	135	
NSI	<b>76</b> ·	
Commercial Establishments		
BG1	112	
BS1	71	
PG1	99	
PSl	77	

## Utility Units Consumed (Cont'd)

Residences

RA1 4
RB1 26
RC1 117

NOTE: Typical price for utility service is \$10,000 per unit. The construction cost of a utility plant is \$12,000,000. Utility plants must be built by the Outside.

### MASTER SHEET FOR BUS COMPANY

## General Characteristics

Operating Expenses Fixed Cost of equipment per distance unit	\$13,000 (13 units)
Employment Typical cost of labor per distance unit	1,300
Units of labor required per distance unit	16
[NOTE: Bus hires middle income (PM) workers only. There are 16 workers in a PM. The typical salary per worker is \$5000. One PM supplies 1000 units of labor and 50 units of labor are required to operate a bus (level 1) for one distance unit.]	
Depreciation and maintenance of equipment	
Average rate (annual)	3.5%
BG and BS requirements for 1% renovation or maintenance BG	\$4/unit of equipment
BS	\$6/unit of equipment
Passenger Capacity (people) When value ratio = 100	
Level 1 Route	300
Level 2 Route	600
Level 3 Route	<b>90</b> 0

INPUT EXPLANATION FORMS

of 4	Ø				salary to high income (specified as salary per worker in \$100's)		borrower mils)	27
Page 1	p	if from department, percent of parcel		ָׁכ <u>ּת</u>	salary to middle income (specified as salary per worker in \$100's)	e]	interest rate (in mi	
FION FORM	υ	seller (economic decision- maker or department and juris- diction or, if bid, OU)	new rent/PLI (iŋ \$100's)	basic price/CU	salary to low income (specified as salary per worker in \$100's)	new main- tenance level	term (2 or 25)	term (2 or 25)
SMALL SCALE INPUT EXPLANATION	Q	price (in \$100's)	location	location	location	location	amount (in \$1,000's)	amount (in \$1,000's)
CITY III DECISION-MAKERS:	ત	location	<b>∝</b> I	ρ.l <u>~</u>	ωl	≱I	얾	<u>B</u>
ECONOMIC DEC	Decision- Maker	A, B, C, etc.	A, B, C, etc.	A, B, C, etc.	A, B, C, etc.	A, B, C, etc.	A, B, C, etc.	A, B, C, etc.
	Code	. nas	\$CVPT	ŞCVPT	\$CVPT	\$CVPT	\$OTHER	SOTHER
ERIC And the Periodic Property Con-	Type of Decision		Change Rents	Change Prices	Change Salaries	Change Maintenance Level	Lend Money	Borrow Money from the Outside System

Type of Decision	Code	Decision- Maker	ಸ	Q	U	ਾਹ	Ó
Invest in specu- lative stocks	\$OTHER	A, B, C, etc.	asi	amount (in dollars)	•		
Invest in conser- vative stocks	\$0THER	A, B, C, etc.	CN	amount (in dollars)			,
Sell speculative stocks	\$0THER	A, B, C, etc.	SELLSP	amount (in dollars)			
Sell conservative stocks	\$0THER	A, B, C, etc.	SELLCN	amount (in dollars)			
Build, upgrade, or demolish by Outside System	SOUBLD	A, B, C, etc.	site location	land use	Old level (0 if new new build- ing	new level ma (0 if demo- le lition)	maintenance level
			£	6	ħ	·rl	
			<pre>if resi- dence, quality index; if business;</pre>	if residence, 0; if business, salary to middle	if residence, rent per PL1 (in \$100's); if business,	if commer- cial (BG, BS, PG, PS), price, CU (in \$10's)	
		•	low-income worker (in \$100's)	worker (in 100's)	<b>1</b>		

5 Or 4	new level (0, if demolition)	r	if commer- cial (BG, BS, PG, PS) price/CU(in \$10's)
e e	old level r (0, if new build- c ing)	¥	if resi- dence, rent per PL1 (in \$100's) if busi- ness, salary to high in- come worker (in \$100's)
ಶ	land use (RA, RB, RC, HI, LI, NS, BG, BS, PG, PS, SC, HY, TM, MS)	į	if residence,  0; if  business,  salary to  middle income  worker  (in  \$100's);  if SC or  MS, number of  high or  middle income  Pl's work- ing there
v	site loca- tion	٠	if resi- dence, quality index; if busi- ness, salary to low income worker (in \$ \$100's); if \$C or MS, number of middle or low income Pl's employed there
Q	contractee (economic decision- maker or depart- ment and jurisdic- tion)	ų	mainten- ance level unless HY or TM; if HY or TM is on jur- isdiction boundaries list of jurisdic- tions separated by commas
ಸ	CI loca- tion	ر م	agreed price (in \$10,000's')
Decision- Maker	CI owner		
Code	\$BUILD	· · .	
Type of Decision	Build, upgrade, or demolish by local Construction Industry		

4.	
Page	if economic decision- maker receiving, PVT; if department receiving, CAPital or CURrent account
ಶ	PVT
O	amount (in dollars)
a	receiver (economic decision- maker or department and juris- diction)
rd.	<b>U</b> I
Decision- Maker	A, B, C, etc.
Code	SCASH
Type of Decision	Transfer cash

•					
Boycott \$BYCT A, B, C, E		land use	တ	location	Stop
commercial etc.	•	boycotting	1	rd	bove
establishments		1			Begin

•	÷;.	•	1000	CITY III	SMALL S	LE		Page	1 of 1
		•	SOCIAL DECISION-MAKERS:	STON-MAKERS	INPUT	EXPLANATION 1	FORM		· .
Type of Decision	Code	Decision Maker	ત્	,	บ	. ප	ø	44	` <b>t</b>
Allocate time by jurisdic- tion, by class	STIME	AA, BB, CC, etc.	class (H M, or L) and jur- isdic- tion (1, 2, or 3)	time units in extra work; if none, 0	time units in public adult education if none,	time units in adult educa- tion; if none, 0	time units in politics; if none,	time units in recreation; if none, 0	
Allocate time by jurisdiction, by class, by parcel	\$TIME	AA, BB CC, etc.	class (H, M, or L) and jur- isdic- tion (1, 2, or 3)	time units in extra work; if none, 0	time units in public adult education if none	time units in adult educa- tion; if none, 0	time units in politics; if none,	time units in recrea- tion; if none, 0	residence location
Boycott	\$BYCT	AA, BB CC, etc.	<b>তা</b>	class boycot- ting (H, M, or L)	function boycotted (Shop or Work)	location boycotted (0 if de- partment)	Stop the boycott or Begin it	if applicable, department (SC, MS) and jurisdiction (1, 2, or	<b>≅</b>
Change dollar value of	\$value	AA, BB CC, etc.	class (H, M, or L)	dollar value of time unit					

	•				HHJ 로 다	の
o)					if economic decision-maker receiving, PVT, if department receiving, to CAPital or CURrent account	
ಌ		·			COR	
υ	amount (in dollars),	amount (in dollars)	amount (in dollars)	amount (in dollars)	amount (in dollars)	amount (in dollars)
Q	department receiving and juris- diction	department receiving and juris.	department receiving and juris-	department receiving and juris-	receiver (economic decision- maker or department and juris- diction)	receiver
ಹ	ଧ	ଅଧ	CURS	CAPS	ပါ	88
Decision Maker	CH1, CH2 or CH3	CH1, CH2 or CH3	CHI, CH2 or CH3	CH1, CH2 or CH3	CH1, CH2 or CH3	CHI, CH2 or CH3
Code	\$CASH	\$САЅН	\$CASH	ŞCASH	\$САSН	\$САSН
Type of Decision	Grant Capital Appropriations	Grant Current Appropriations	Grant Current Subsidy	Grant Capital Subsidy	Transfer Cash	Grant Subsidy to Economic Decision-Maker

CHAIRMAN & COUNCIL:	INPUT	EXPLANATION	FORM	Page 2 of 2	
Type of Decision	Code	Decision Maker	65	e p	
1 35 VI	SOTHER	CH1, CH2 or CH3	<b>S</b> I	amount per un- employed worker (in \$100's)	
Change land tax rate	ŞTAXES	CH1, CH2 or CH3	ыl	land tax rate (in mils)	
Change develop- ment tax rate	ŞTAXES	CH1, CH2 or CH3	Δİ	development rate (in mils)	
Change resident (or employee) income tax rate	\$TAXES	CH1, CH2 or CH3	RI (or EI)	resident (or employee) income (in mils)	
Change resident (or employee) auto tax rate	\$TAXES	CHI, CH2 or CH3	RA (or <u>ea</u> )	resident (or employee) auto expenses (in mils)	
Change goods sales tax rate	ŞTAXES	CH1, CH2 or CH3	٠ Ul	goods tax rate (in mils)	
Change services sales tax rate	ŞTAXES	CH1, CH2 or CH3	ဖျ	services tax rate (in mils)	-

25

amount (in \$1,000's)

읾

\$OTHER department

Float Capital Bonds

receiving and juris-

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CITY III -- SMALL SCALE

ASSESSMENT DEPARTMENT: INPUT EXPLANATION FORM

		. •	· .
o q	Development Assessment Rate in tenths of a percent (i.e., "500" equals "50%")	Development Assessment Rate in tenths of a percent ( i.e., "500"equals "50%")	Land Assessment Rate in tenths of a percent (i.e., "500" equals "50%")
ಹ	Q	D and land use code (i.e., DH1 DEI, DNS, DBG, DBG, DRG, DRA, DRB, Or DRC)	티
Decision Maker	AS1,AS2 or	AS1,AS2 or AS3	AS1, AS2 or
Decision Code	\$asmit	\$asmnt	\$ ASMNT
Type of Decision	Change Development Assessment Rates for all land uses jurisdiction-wide	Change Development Assessment Rate for a particular land use	Change Land Assessment Rate Jurisdiction-wide

	٠	•				•	Page 2 of 3	
Type of De	of Decision	Decision	Decision	ec	۵.	70	Ð	•
Change Land Assessment R for parcels a particular land use	nd Rate S with ar	\$ASMNT	ASI, AS2 or AS3	L and use code (i.e. LHI, LLI, LEI, LEG, LES, LES, LRB, LRB, LRB, LRB, LRB, LRB, LRB, LUL, )	Land Assessment Rate in tenths of a percent (i.e., "500" equals			
Define Spe Zones	Special	SASMNT	ASI, AS2 or AS3	- ZS	zone number (1,2,3,4, etc.)	list of  upper left and lower right inter- sections coordinates	if any other special zone is to have same special rates as this, zone number here	•
hange pment ssessm ates w Speci	Devel- or Land ent ithin al Zone	\$ASMNT.	AS1, AS2 or AS3	Develop- ment or Land	Land or Development Assessment Rate in tenths of a percent (i.e "500" equals	Zone number		•
1. "UL" 3. No spersond 3. Intersthe the Letter 1.	"UL" is the land No special zones round before any Intersection coo: in the rectangle the lower right	use are spec rdina form	code for undecarried from ial rates by tes are odd-ned by parcel corner.	eveloped one roun zone are numbered.	1. the next, ttiated. ius "9125, 9 upper left	they must be re-def 1933" would include hand corner and par	fined each all parcels reel 9832 in	

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7	Assessed Value of Developments (in \$10,000's)
Zone number	Assessed value of land (in \$10,000's)
Land or Development Assessment Rate in tenths of a percent (i.e. "500" equals	Location
Development or Land and land use code (i.e., DHI, DLI, or HI, LLI, etc.)	SA
Decision Maker ASI, AS2 or AS3	ASI,AS2 or AS3
Decision Code \$ASMNT	ŞASMNT
Type of Decision  Change Develop- 5  ment Assessment Rate for a partic- ular land use or change Land Assessment for parcels with a particular land use within a special zone.	Make Special Assessments for land and developments

NOTE: After all assessment decisions are made, write "ASMNT/#AS1,2,or3/END" on the last line of the input decision form.

CITY III -- SMALL SCALE

of

Page 1

SCHOOL DEPARTMENT: INPUT EXPLANATION FORM

, <b>4</b> 4			
υ			
percent of parcel (0 if all)	new number of PH units working there		
seller (economic decision- maker or department)	new number of PM units working there	new maintenance level	\$ u *
price (in \$100's)	.location	location	list of new parcels in district in parentheses*
location	βI	Σİ	location of school
Decision- Maker SC1, SC2, or SC3	SC1, SC2, or SC3	SC1, SC2, or SC3	r SC1, SC2, or SC3
\$PU	\$CVPT	\$CVPT	\$REDIST
Type of Decision Purchase or bid on land	Change employment	Change mainten- ance level	Change district boundaries

\*Parcels can be listed within parentheses by specifying upper left and lower right hand corners separated by "> ". Example:

\$REDIST/=SC1/9232 > 10040)

•					•			
Type of Decision	Code	Decision- Maker	ಹ	Q	Ð	"ପ	<b>.</b>	• <b>પ</b> ન
Request Federal- state aid	ŞFSA	scl, sc2, or sc3	new level of school for which aid is requested (1, 2, or 3	location 3)				
Change salaries	Sother	SCl, SC2, or SC3	ωl	salary to middle . income worker (in \$100's)	salary to high income worker (in \$100's)			
Construct, upgrade or demolish a school by the "Outside System"	\$OUBLD	SC1, SC2, or SC3	site location	SC old leve (0, new buil	old new level (0, if new demolibuilding) tion)	new main- tenance level	number of PM's working	number of PH's work-
			8	q	U	ים	O	44
Construct, upgrade or demolish a school by the local Construction	a o	` ·	[See CI owner]	er]	•			
K to ennit								38

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•		• ,	ł · · ·
<b>4</b> 4	ţ	owner of BG or BS Estab- lishment	
<b>O</b>	if economic decision- maker receiving, PVT; if department receiving, CAPital or CURrent account	displaced priority	· •
rd	from CAPital or CURrent account	new priority	
U	amount (in dollars)	percent of total BG or BS purchase to be bought there	number of high-income time units requested
<b>.</b>	receiver (economic decision- maker or department and juris- diction)	location of BG or BS estab- lishment	number of middle-income time units
ಸ	<b>U</b> I	ol .	EA
Decision- Maker	scl, sc2, or sc3	scl, sc2, or sc3	SC1, SC2, or SC3
Code	ŞCASH	\$CVPT	\$OTHER
Type of Decision	Transfer	Award BG or BS contracts	Request adult edu- cation teachers

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CITY III -- SMALL SCALE

MUNICIPAL SERVICES DEPARTMENT: INPUT EXPLANATION FORM

O	•			
<b>T</b> O	percent of parcel (0 if all)	new number of PM's working . there		
· ·	seller (economic decision- maker or department and juris- diction or OU)	new number of PL's working there	new main- tenance level	
م	price (in (100's)	location of plant	location of plant	list of new parcels in parentheses*
<b>r</b> d	location	<b>터</b>	×I	location of MS plant
Decision- Maker	MS1, MS2, or MS3	MSI, MS2, or MS3	MS1, MS2, or MS3	MS1, MS2, or MS3
Code	ŞPU	\$CVPT	\$CVPT	\$REDIST
Type of Decision	Purchase or bid on land	Change employment	Change maintenance level	Change district boundaries

\*Parcels can be listed within parentheses by specifying upper left and lower right hand corners separated by "> ". Example:

\$REDIST/=MS/9230, (9232 > 10040)

•				1	ı	· .
44	owner		Б	new number of PM's working there	44	41
0	displaced priority		£	new number of PL's working there	Φ	
7	new prior- ity .		Φ	mainten- ance level	ъ	•
v	it of BG pur- to to	ew alary to iddle- ncome orker (in 100's)	ď	new level (0 if demoli- g) tion)	υ	
q	per tot chic be the	to s come m (in i	U	old level (0 if new building)	q	
	location of BG or BS estab lishment	new salary to low-income worker (in \$100's)	Q	MS	·	owner]
· <b>n</b>	Ul	<b>ဖာ</b> ါ	ಹ	s i t c	R	[see CI
Decision- Maker	MSI, MS2, or MS3	MS1, MS2, or MS3		MS1, MS2, or MS3		
Code	\$CVPT	SOTHER.		SOUBLD		s o
Type of Decision	Award BG or BS contracts	<b>Change</b> salaries	•	Construct, upgrade, or demol- ish an MS plant in the "out- side System"		Construct, upgrade or demolish MS plant by a local Construction Industry

44	
Φ	if economic decision- maker receiving, pVT; if department receiving, to CAPital or CURrent
ರ	from CAPi- tal or CURrent account
Ų	amount (in dollars)
Ω	receiver (economic decision- maker or department and juris- diction)
ಹ	υl
Decision- Maker	MS1, MS2, or MS3
Code	\$CASH
Type of Decision	Transfer cash

## CITY III -- SMALL SCALE

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	N FORM	
•	INPUT EXPLANATION	
• • • • • • • • • • • • • • • • • • • •	INPUT	
	DEPARTMENT:	
	HIGHWAY	

4)			if on jur. diction boundary jurisdict numbers,	separated by commas	<b>C</b>
ಌ	percent of parcel (o if all)	••	new level (0 if demolition)		31, 8731)
U	seller economic decision- maker or department and juris- diction or	type of road (1, 2, or 3)	old level (0 if new road or terminal)		coordinates intersections of t road sections ntheses [e.g., x1/2,(9927,9931,9931
۵	price (in (\$100's)	new main- tenance level	HY if road TM if term- inal	[See CI owner]	list of coordinat of end intersecti straight road sec in parentheses [e \$FSA/=HY1/2,(9927
ಪ	location	মা	site location		new level for which aid re- quested (1, 2, or 3)
Decision	HY1, HY2 or HY3	HY1, HY2 or HY3	HYI, HY2 or HY3		HY1, HY2 Or HY3
Code	Das	\$OTHER.	SOUBLD		Sesa.
Type of Decision	Purchase or bid on land	Change Main- tenance Level	Construct, up- grade or demolish a road or terminal by the "Outside System"	Construct, up- grade or demolish a road or terminal by the local con- struction Industry	Request federal- state aid

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	(n)	Decision	•	, <b>.</b>		7	
Type of Decision		Maker	4	2	5	3	ע
Transfer Cash	\$CASH	HY1, HY2	ບ	receiver	amount (in	from CAPital	if economi
	•	or HY3	<b>!</b>	(economic	dollars)	or CURrent	decision-
				decision-		account	maker is
				maker or .	•		receiving,
				department			PVT; if
			•	and juris-	•		. department
			•	diction)			is receivi
						٠	to CAPital
	•			•			

HIGHWAY DEPARTM

PLANNING AND ZONING DEPARTMENT: INPUT EXPLANATION FORM

	<b>v</b>				if economic decision- maker is receiving, PVT if department is receiving, to CAPital or CURrent account		45
•	<b>.</b>	percent of parcel (0 if all)			CAP	e lic 1	to be ted from institutional
		seller (economic decision- maker or department and juris- diction or OU)	new zoning code	um 3 requests]	amount (in dollars)	percent to be added to public institutional	percent to be subtracted from
:	Q	price (in \$100's)	location	[maximum	receiver (economic decision- maker or department and juris- diction)	location	location
	ಹ	location	ы	.sl00's)	Ol	<u> 1a</u>	RPI
	Decision- Maker	PZ1, PZ2, or PZ3	PZ1, PZ2, or PZ3	PZ1, PZ2, or PZ3	PZ1, PZ2, or PZ3	PZ1, PZ2, Or PZ3	PZ1, PZ2, or PZ3
	Code	seu .	\$CVPT	\$FSA	ŞCASH	\$CVPT	\$CVPT
	Type of Decision	Purchase or bid on land	Change	Request Federal- state aid	Transfer cash	Create public institu- tional land use	Demolish \$ public institutional
			••	•		•	•

## CITY III -- SMALL SCALE

## UTILITY DEPARTMENT: INPUT EXPLANATION FORM

		4			magar an emirit resident at the pathologic residence of the second second
0					if economic decision- maker receiv- ing, PVT; if department receiving, to CAPital or CAPital or account
تع	percent of parcel (0 if all)	new level of service	•	new level (0 if demolition)	from CAPital or CURrent account
υ	seller (economic decision- maker or department or OU)	location of plant serving		old level (0 if new plant)	amount (in dollars)
q	price (in \$100's)	location	new price per unit of utility service	UT	receiver (economic decision- maker or department and juris- diction)
ત્ત	location	SI	ρl	site location	υl
Decision- Maker	UT1, UT2, or UT3	UT1, UT2, or UT3	UT1, UT2, or UT3	UTI, UT2, or UT3	UT1, UT2, or UT3
Code	nas	\$CVPT	\$OTHER	SOUELD	ŞCASH
Type of Decision	Purchase or bid on land	Change utility service	Change prices	Construct, upgrade or demolish a utility p	Transfer cash

	FORM
- SMALL SCALE	T EXPLANATION
iii	INPU
CITY	COMPANY:
	BUS

Page 1 of 2

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Type of Decision Change routes or level of service	Code \$ROUT	Decision- Maker BUS	route number	old level of service	new level of service (0 if eliminating route)	ist, in parentheses, of intersections in order, where bus starts, turns, and finishes (0 if no changes to route location	
<b>Transfer</b> cash	\$CASH	BUS	<b>Ul</b>	receiver (economic decision- maker or department and juris- diction)	amount (in dollars)	from CAPi- tal or CURrent account	if economic decision-maker receiving, PVT if department receiving, to CAPital or CURrent
Purchase Rolling Stock	Sother	BUS	PS.	number of units of equipment		•	
Sell Rolling Stock	\$OTHER	BUS	SS	number of units of equipment			

Fateralbitings

Type of Decision	* ************************************	Decision- Maker	ĸ	Q.	<b>ઇ</b>	•
Set fares	SOTHER S	S:DAI	ല	base fare 0 per worker, per journey (in ¢)	price per mile (in ¢).	
Change salaries	SOTHER	BUS	ဖျ	new salary to PM worker (specified as salary per worker in \$100's)		
Change maintenance level	SOTHER	BUS	Σl	new maintenan <b>ce</b> level		